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Fiber Optic Technic

F1000 FIBER DETECTOR

All Functions in 1 Device, Pocket-sized, Easy-to-use, and Affordable for Technicians at Any Level



The device is with 3.5 inch Capacitive LCD screen, supporting both touch and physical buttons operation. It can be charged by Type-C USB. Wireless charging is optional.
With new automatic laser detection technology, optical modules can be protected to be damaged when light (up to -2dBm) is running on the testing fiber.
The FD1000 integrates with 9 functions for almost all situations in fiber network installation or maintenance.

Features

- Single, dual wavelength light-weight OTDR
- Combines all essential fiber tests in one handheld with OTDR, OPM, OLS, VFL, etc
- Easy to understand OTDR analysis with event map result view and pass/fail indications
- Access network or point-to-point network verification or troubleshooting
- Upgrades easily in the field
- All-day battery life

OTDR | Optical Power Meter | Optical Light Source | Visual Fault Locator | Insertion Loss Testing | Event Map | LED Light | Rj45 Cable Testing

Configuration

			Hot Sale	
Model#	**F1000-24**	**F1000-50**	**F1000-10**	**F1000-25**
Wavelength	1310nm & 1550nm	1550nm	1610nm	1625nm
Dynamic Range	24/22dB	22dB	22dB	22dB
Testing Range	3m to 80km	3m to 80km	3m to 80km	3m to 80km
OTDR	√	√	√	√
Power Meter	√	√	√	√
Light Source	√	√	√	√
Visual Fault Locator	√	√	√	√
Insertion Loss Testing	√	√	√	√
LED Light	√	√	√	√
Event Map	√	√	√	√
RJ45 Sequence	√	√	√	√
RJ45 Tracking	√	√	√	√
Active Fiber Testing	x	√	√	√

The Kit Includes: OTDR, FC/SC Connector, User Manual, Touch Pen, TF Card, OTDRviewer Software, Power Charging Adapter, Cleaning Tool, Carrying Case, Certificate of Calibrate

Note: F1000-50/10/25 is with Filter for Active in-service Fiber Testing.

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General

Size/Weight	175x125x30mm/ 430g (Battery included)
Display	3.5 inch touch-sensitive TFT Screen, 320x480 Resolution
Interface	Type-C USB, SD port, OTDR port, VFL port, Power Meter Port, Charging Port
Power Supply	Input: 100V(ac) to 240V(ac), 50~60Hz, 0.8A; Output: 9V(DC), 2A 4000mAh/3.7V Lithium battery
Battery	Standby Time>20 hours, Testing time>10 hours
Power Saving	Back light: Common/Highligh/Power saving/Customized Auto power off: Never/1min/5min/10min/30min/60min
Data Storage	>1000 curves, SD card (Optional)
Language	English, Spanish, French, Korean, Italian, Portugal, Russian
Environmental Conditions	Operating temperature and humidity: -10℃~+55℃, ≤90% (non-condensation) Storage temperature and humidity: -30℃~+70℃, ≤90% (non-condensation)

OTDR Module

Pulse Width	5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs, 10μs
Distance Range	100m, 500m, 1km, 2km, 5km, 10km, 20km, 40km, 60km, 80km
Sampling Resolution	Minimum 0.25m
Sampling Point	Maximum 64,000 points
Linearity	≤0.05dB/dB
Averaging Time	10s, 15s, 30s, Real Time, Customized
Deadzone	Event deadzone 2.5m, Attenuation deadzone 8m
Distance Accuracy	±(1m+measuring distance×3×10^-5+sampling resolution) (excluding IOR uncertainty)
Loss Threshold	Auto, Customized
Loss Resolution	0.001dB
Distance Resolution	0.001m
IOR Setting	1.0~1.9, 0.0001 step
Units	km, miles, kfeet
OTDR Trace Format	Telcordia universal, SOR, issue 2(SR-4731)

VFL Module

Wavelength	650nm
Output Power	10mw, CLASSIII B
Range	12km
Launching Mode	CW/1Hz/2Hz

OPM Module

Wavelength	850/1300/1310/1490/1550/1625/1650nm
Test Range	-70~+ 10dBm, -50~+ 26dBm (Optional)
Resolution	0.01
Accuracy	±0.35dB±1nW
Modulation	CW/270/330/1k/2k Hz, Pi≥-40dBm

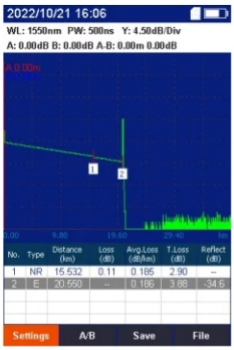
OLS Module

Wavelength	Same as OTDR Wavelengths
Output Power	-5dBm±2dB
Output mode	CW/270/1k/2k Hz

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Functions Display

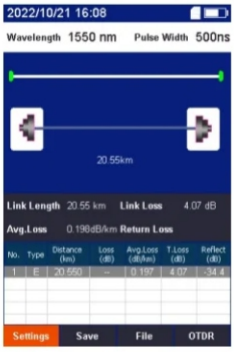






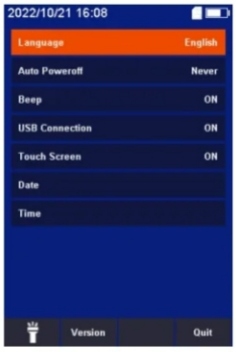


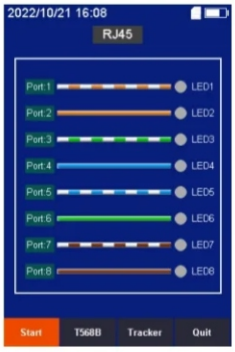












OTDR Report Printing



OTDR REPORT

OTDR v2.20 2019-08-31 02:26:06

Job
Job ID : 900
Contractor: gpo
Customer : wcq
File : OTDR-0002.sor
Date : 2019-08-28 17:38:46
Operator: wen

Configuration
Wavelength(nm): 1550
Pulse(ns) : 1000
Origin
Location: 1
Cable : 1
Fiber : 1
Color : 1
Range(m) : 50000
Average Time(s): 10
End
Location: 2
Cable : 2
Fiber : 2
Color : 2
Backscatter coeff(dB) : -80.000
Loss threshold(dB) : Auto
Reflectance threshold(dB): Auto
End of fiber threshold : Auto
Refractive Index : 1.469

Comment
0

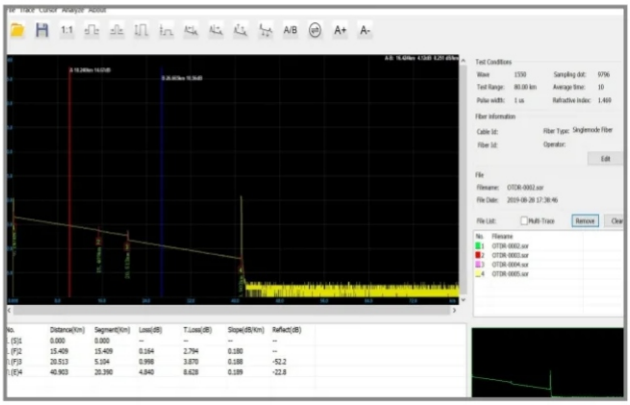
Trace

A: 0.147km 16.68dB
B: 26.665km 10.56dB
A-B: -26.518km 6.12dB -0.231dB/km

Event

Event Type	Distance (km)	Segment (km)	Loss (dB)	Total Loss (dB)	Attenuation (dB/km)	Reflectance (dB)
1Reflect(S)	0.147	0.000	---	---	---	---
2Reflect(F)	15.409	15.262	0.164	2.794	0.180	---
3NonReflect(F)	20.513	5.104	0.998	3.870	0.188	-52.209
4NonReflect(E)	40.903	20.390	4.840	8.628	0.189	-22.756





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